

Serial No. 10/672,074

Atty. Docket No. 48544-00012

AMENDMENTS TO THE DRAWINGS

Applicant submits herewith 23 sheets of replacement drawings in response to the Notice to File Missing Parts of NonProvisional Application mailed 19 November 2003.

Please delete the original drawings (Figures 1-23) filed 29 September 2003 and insert therefore the attached replacement drawings (Figures 1-23).

Attachment: 23 Sheets Replacement Drawings (Figures 1-23)

REPLACEMENT SHEET
SHEET 1 OF 23



Strain	Genotype	Parent Strain	References
SC5314	Wild type		Gillum et al., 198 Mol. GEN. GENET. 179-82 (1984)
CAI4	Δ ura3::imm434/ Δ ura3::imm434	SC5314	Fonzi et al., 134 GENETICS 717-28 (1993)
*UnoPP-1	Δ ura3::imm434/ Δ ura3::imm434 Δ eno1::URA3/ENO1	CAI4	Postlethwait et al., 177 J. BACTERIOL. 1772-9 (1995)
CAC1	Δ ura3::imm434/ Δ ura3::imm434 CAP1/cap1::hisG-URA3-hisG	CAI4	This study
CAC1-1	Δ ura3::imm434/ Δ ura3::imm434 CAP1/cap1::hisG	CAC1	This study
CAC1-1A	Δ ura3::imm434/ Δ ura3::imm434 CAP1/cap1::hisG-URA3-hisG	CAC1-1	This study
CAC1-1A1	Δ ura3::imm434/ Δ ura3::imm434 cap1::hisG/cap1::hisG	CAC1-1A	This study
CACRE1	Δ ura3::imm434/ Δ ura3::imm434 CAP1/cap1::hisG ENO1/eno13	CAC1-1A1	This study

*a CAI4 derivative made Ura⁺ by disruption of an enolase gene with URA3

Figure 1

B

1 2 3 4 5 6

cap1::hisG-URA3-hisG 7.6 kb —
cap1::hisG 4.7 kb —
CAP1 3.7 kb —

Figure 2

3
6
F

[illegible]

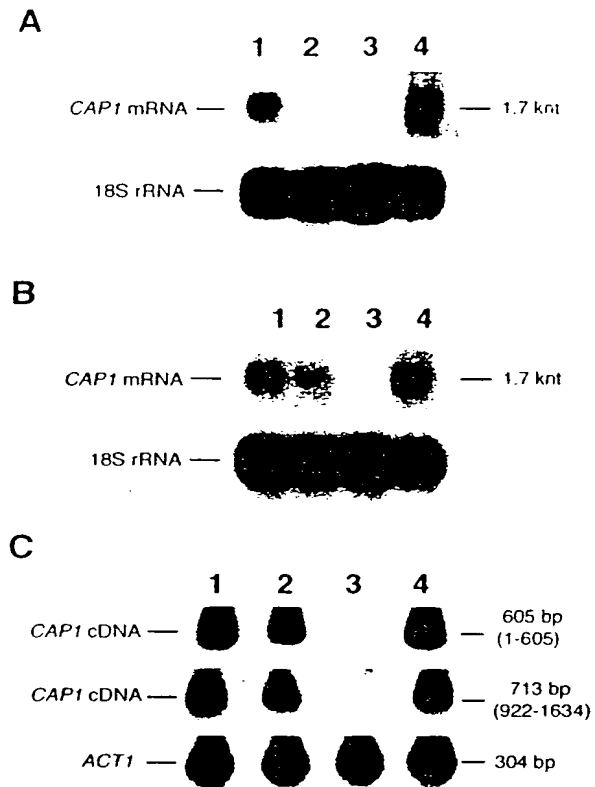


Figure 4

Strains	Doubling Time (hour)*					
	Rich media (YPD)			Minimal media (YNB)		
	27°C	30°C	37°C	27°C	30°C	37°C
UnoPP-1	2.2	1.6	2.0	2.9	2.9	3.0
CAC1	2.2	1.7	2.0	2.9	2.9	3.0
CAC1-1A	2.3	1.7	2.2	3.9	3.7	3.8
CACRE1	2.2	1.7	2.1	2.8	2.9	2.9

* Mean value from two independent experiments that differed by less than 20%

Figure 5

REPLACEMENT SHEET
SHEET 6 OF 23

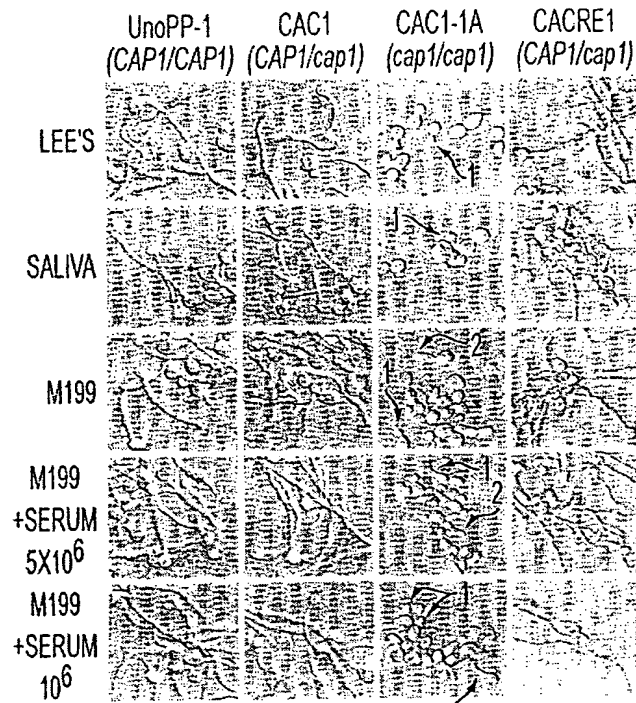


FIG. 6A

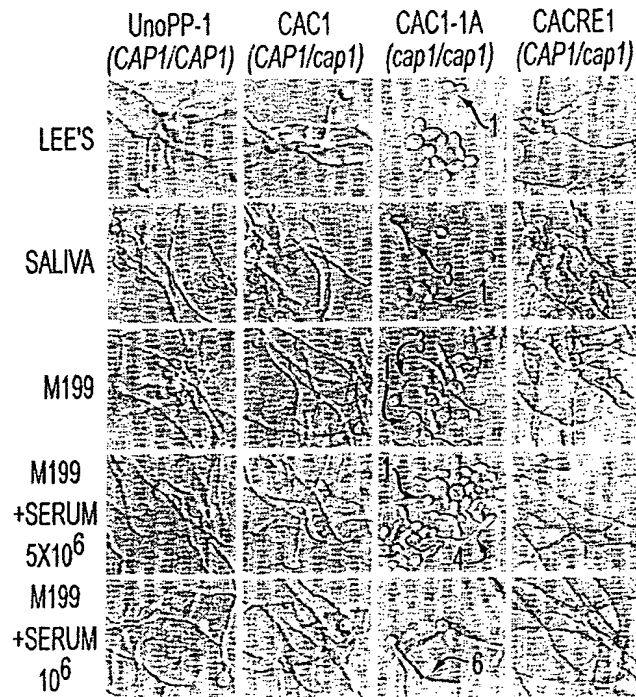
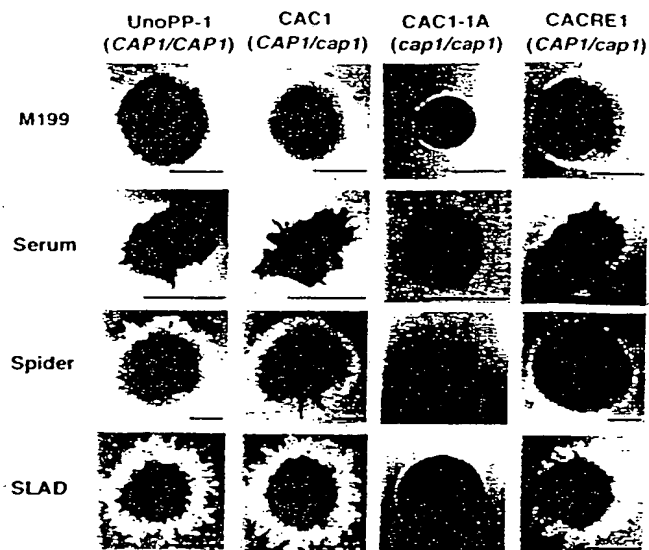


FIG. 6B

REPLACEMENT SHEET
SHEET 7 OF 23

A



B

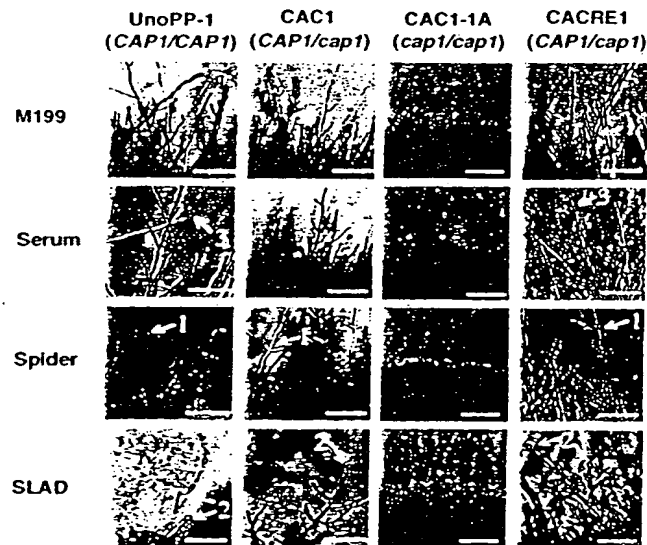


Figure 7

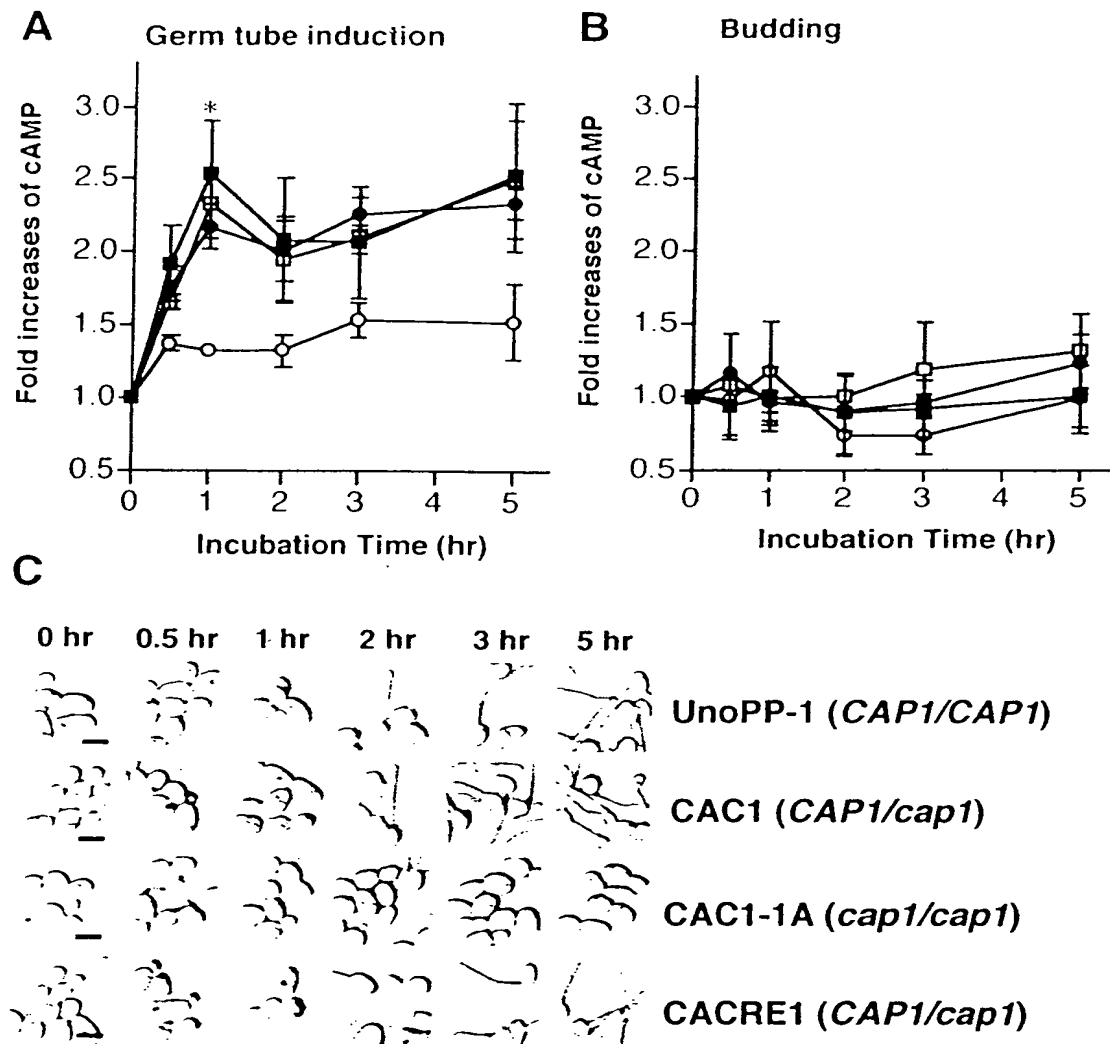
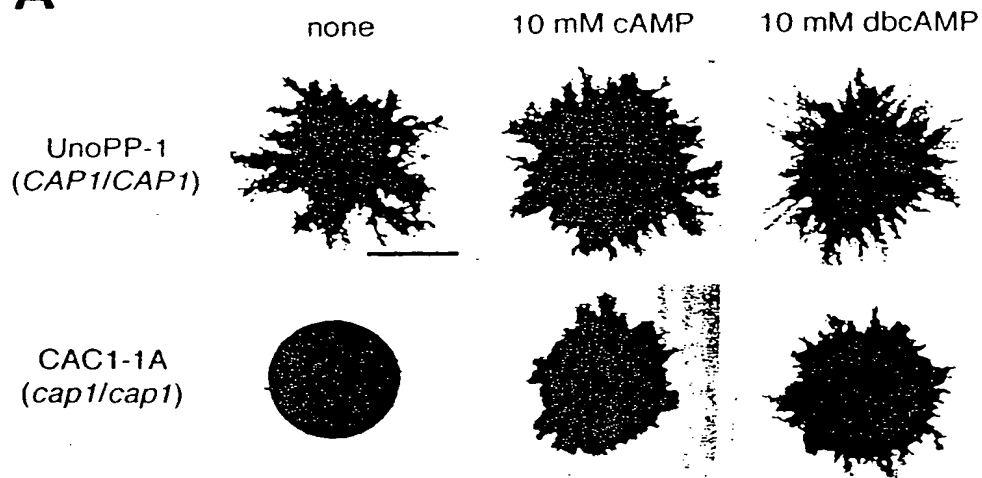


Figure 8

A



B

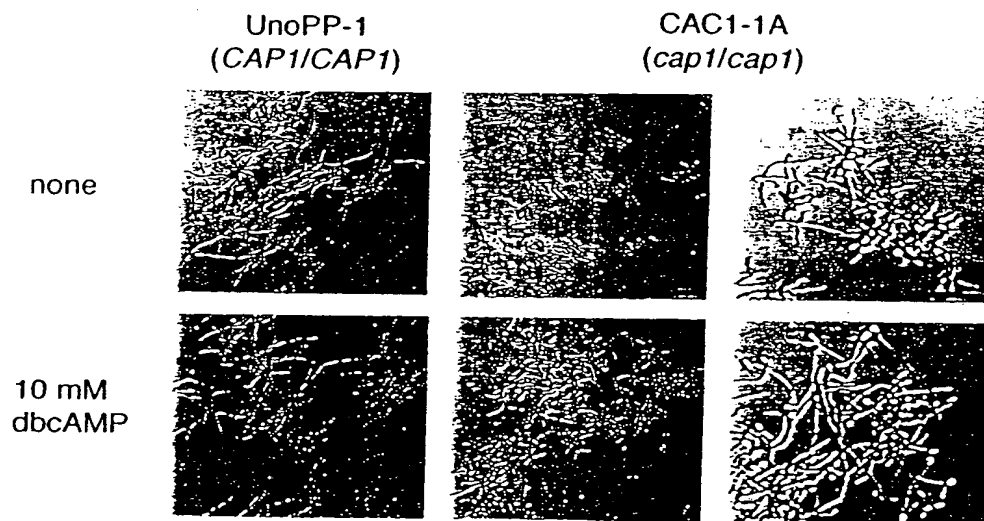


Figure 9

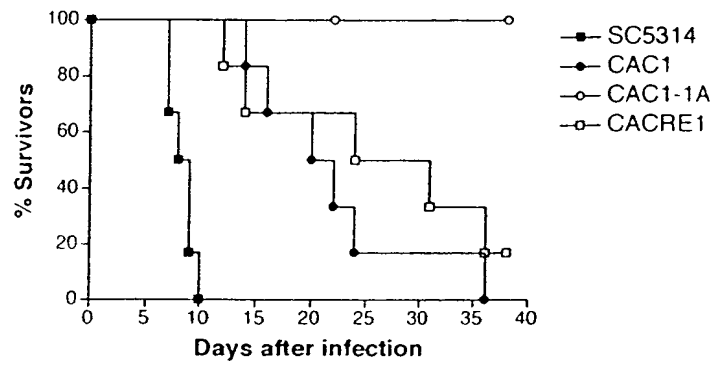


Figure 10

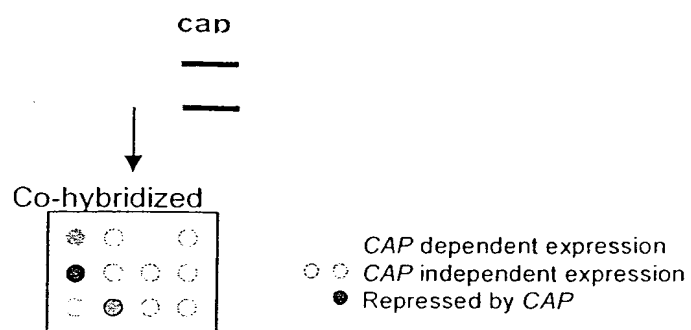


Figure 11

REPLACEMENT SHEET

SHEET 12 OF 23

Strain	Genotype	Parent Strain	References
SC5314	Wild type		(Gillum <i>et al.</i> , 1984)
CAI4	$\Delta ura3::imm434/\Delta ura3::imm434$	SC5314	(Fonzi and Irwin, 1993)
UnoPP-1	As CAI4, but $\Delta eno1::URA3/ENO1$	CAI4	(Posillethwait and Sundstrom, 1995)
CAC1-1A	As CAI4, but $cap1::hisG/cap1::hisG-URA3-hisG$	CAC1-1	(Bahn and Sundstrom, 2001)
CAC1-1A1	As CAI4, but $cap1::hisG/cap1::hisG$	CAC1-1A	(Bahn and Sundstrom, 2001)
CAC1-1A1E1	As CAC1-1A1, but $\Delta eno1::URA3/ENO1$	CAC1-1A1	This study
BPS1	As CAI4, but $PDE2/pde2::hisG-URA3-hisG$	CAI4	This study
BPS2	As CAI4, but $PDE2/pde2::hisG$	BPS1	This study
BPS3	As CAI4, but $pde2::hisG-URA3-hisG/pde2::hisG$	BPS2	This study
BPS4	As CAI4, but $pde2::hisG-URA3-hisG/pde2::hisG$	BPS2	This study
BPS7	As CAI4, but $pde2::hisG/pde2::hisG$	BPS4	This study
BPS13	As BPS2, but $\Delta eno1::URA3/ENO1$	BPS2	This study
BPS15	As BPS7, but $\Delta eno1::URA3/ENO1$	BPS7	This study
BPS9 (revertant)	As CAI4, but $PDE2/pde2::hisG \Delta eno1::URA3/ENO1$	BPS7	This study
BPS10 (revertant)	As CAI4, but $PDE2/PDE2 \Delta eno1::URA3/ENO1$	BPS7	This study
BPS11 (revertant)	As CAI4, but $PDE2/PDE2 \Delta eno1::URA3/ENO1$	BPS7	This study
BPS16	As CAC1-1A1, but $PDE2/pde2::hisG-URA3-hisG$	CAC1-1A1	This study
BPS17	As CAC1-1A1, but $PDE2/pde2::hisG$	BPS16	This study
BPS18	As CAC1-1A1, but $pde2::hisG-URA3-hisG/pde2::hisG$	BPS17	This study
BPS19	As CAC1-1A1, but $pde2::hisG-URA3-hisG/pde2::hisG$	BPS17	This study
BPS20	As CAC1-1A1, but $pde2::hisG/pde2::hisG$	BPS18	This study
BPS24	As BPS17, but $\Delta eno1::URA3/ENO1$	BPS17	This study
BPS27	As BPS20, but $\Delta eno1::URA3/ENO1$	BPS20	This study
BPS22 (revertant)	As CAC1-1A1, but $PDE2/pde2::hisG \Delta eno1::URA3/ENO1$	BPS20	This study
EGFP3	As CAI4, but $\Delta eno1::ENOp-GFP-URA3/ENO1$	CAI4	(Staab <i>et al.</i> , unpublished)
EPDE2-3	As CAI4, but $\Delta eno1::ENOp-PDE2-URA3/ENO1$	CAI4	This study

Figure 12

CaPDE2 335 N P E I Q T L E L G L V I A I A L G H D V G C H P G T I N D E M I K F S A P T A L R Y 372
ScPDE2 288 N E V Q T L E L E C M A T A I G H D V G C H P G T I N N Q L L C N C E S E V A A Q N F 325
HuPDE2A3 682 E D M E T T F A E F I S C M C H D L H R G T N N S F O V I A S K S E V L A A L Y 719

CaPDE2 373 N D R - S V L E S Y H A S I E L I N K V L R I C W P D L L T C T I L E E K S E L 409
ScPDE2 326 K N V - S I L E N F H R E L E F O L L S E H W P - - L K L S I S K K K - - 357
HuPDE2A3 720 S S E G S V L M E R H H F A Q A I I - A I L E N T H G C N - I F D H F S I R K D Y Q 755

CaPDE2 410 T I R S L V I S S I L A T D M G E H N E Y V N R N K S F K T H N E I L N H D 447
ScPDE2 358 - F D F I S E A I L A T O M A L H S Q Y E D R E M H E N P M K Q I T - - 390
HuPDE2A3 756 R M L D L M R D I I L A T G D L A H H L R I F K D E Q K M A E V G Y D R N N K 793

CaPDE2 448 N T V K L P S A L E L K C A D I S N V Y R P L R V S A Q W A M V L S R E E 484
ScPDE2 391 - - - - T I S L I I K A A D I S N V Y R P L S I S A R W A Y E L I T L E E 422
HuPDE2A3 794 Q H H R I L L C L L M T S C D L S D Q T K G W K T T T R K I A E L Y I K E E 830

Figure 13

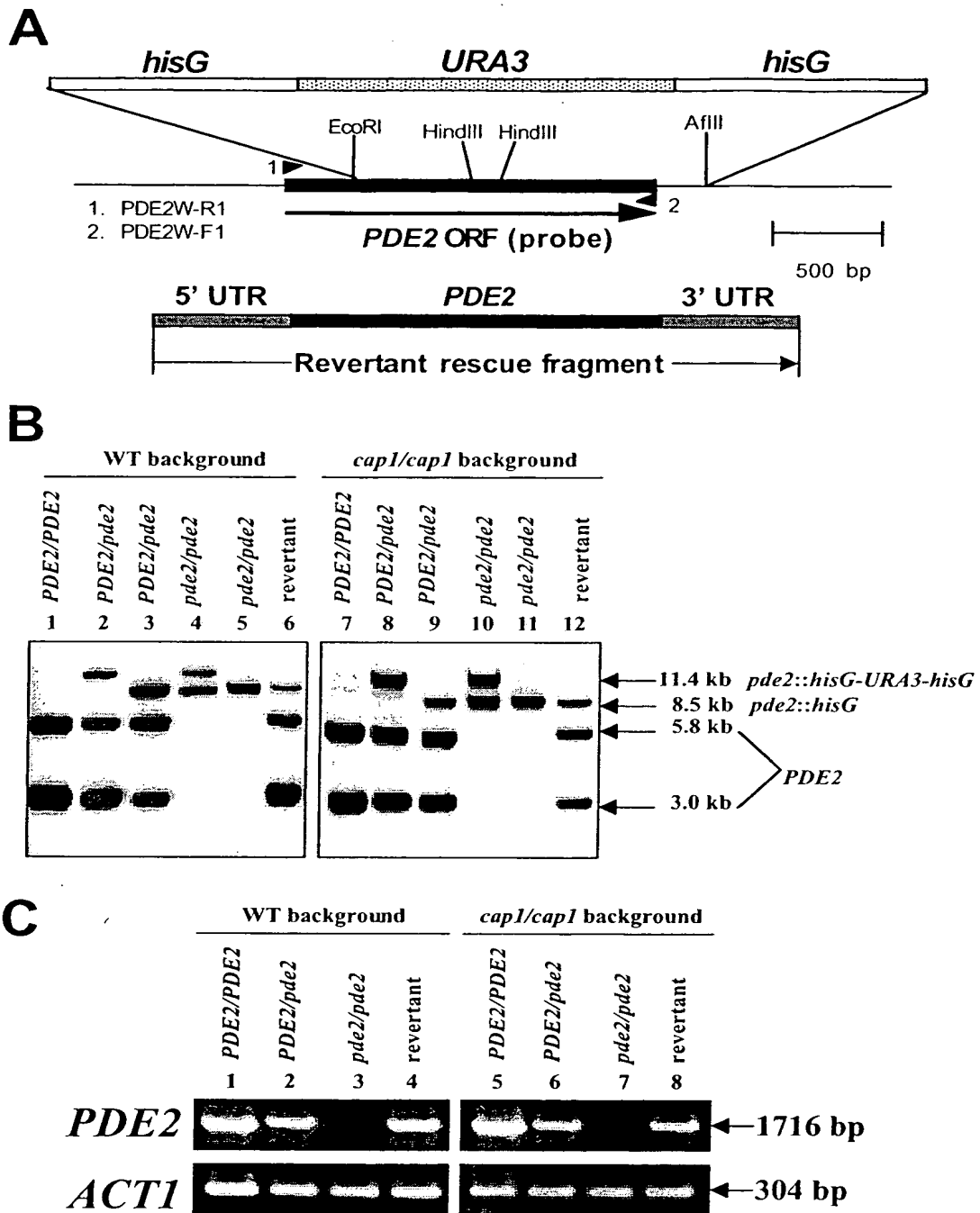


Figure 14

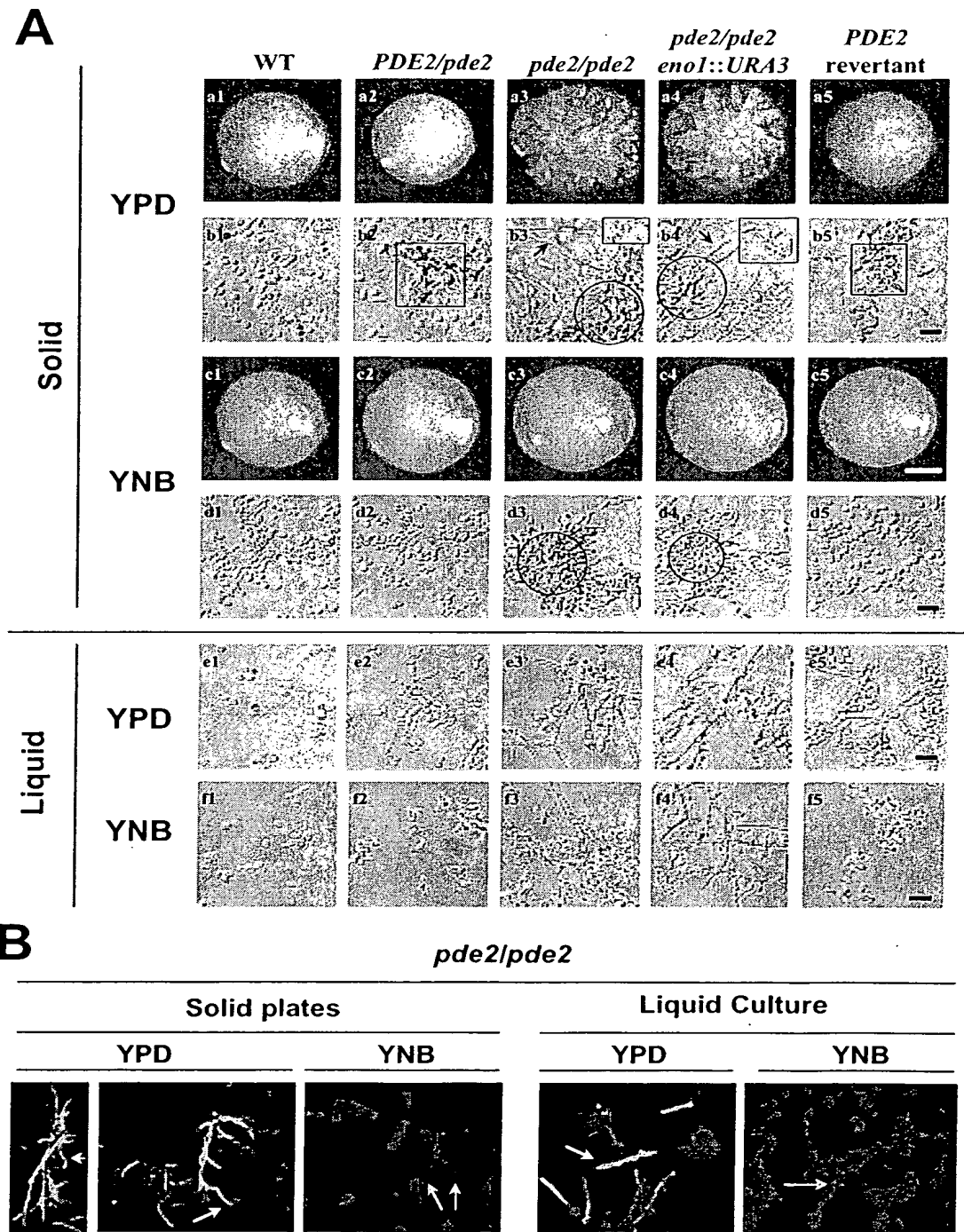


Figure 15

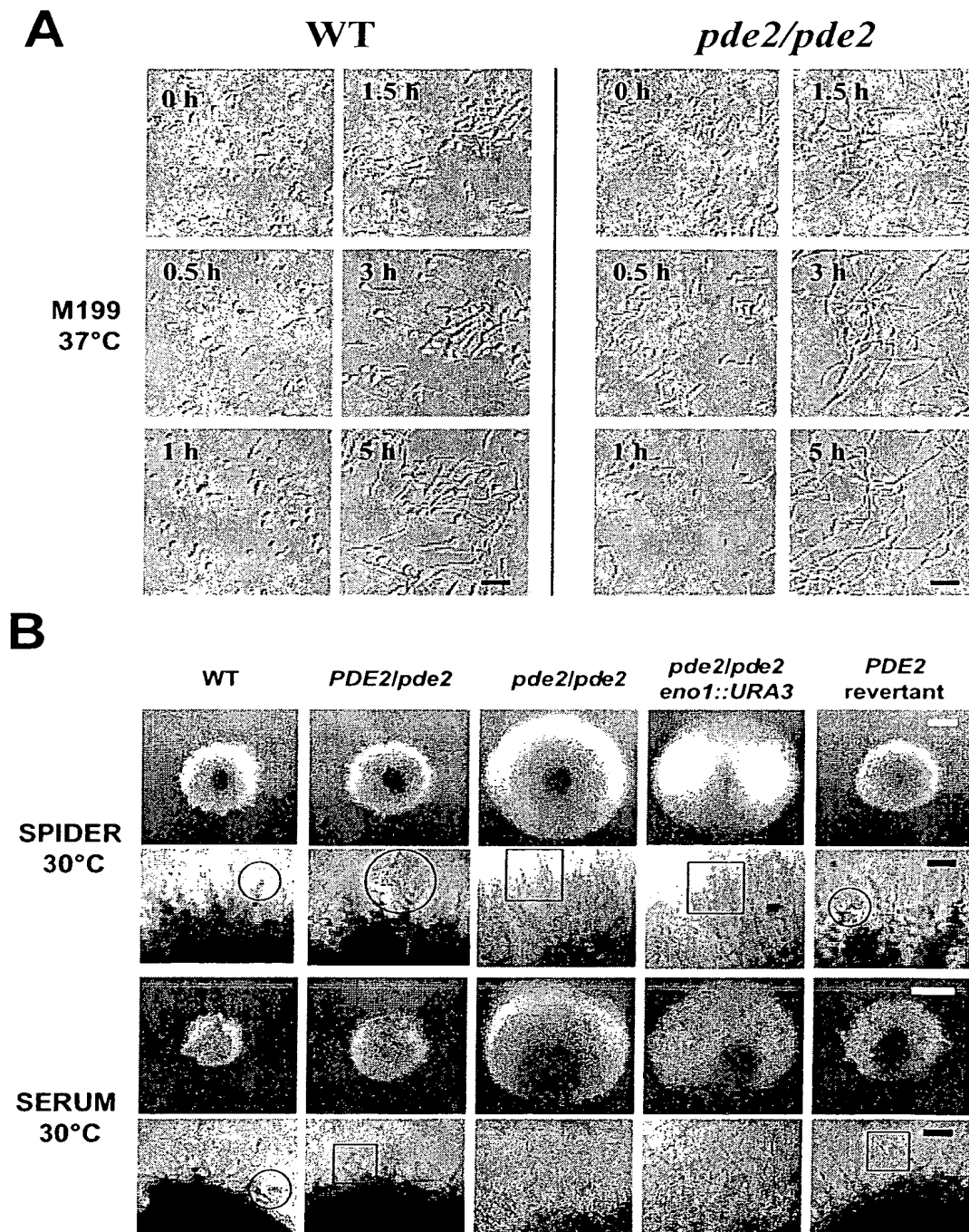


Figure 16

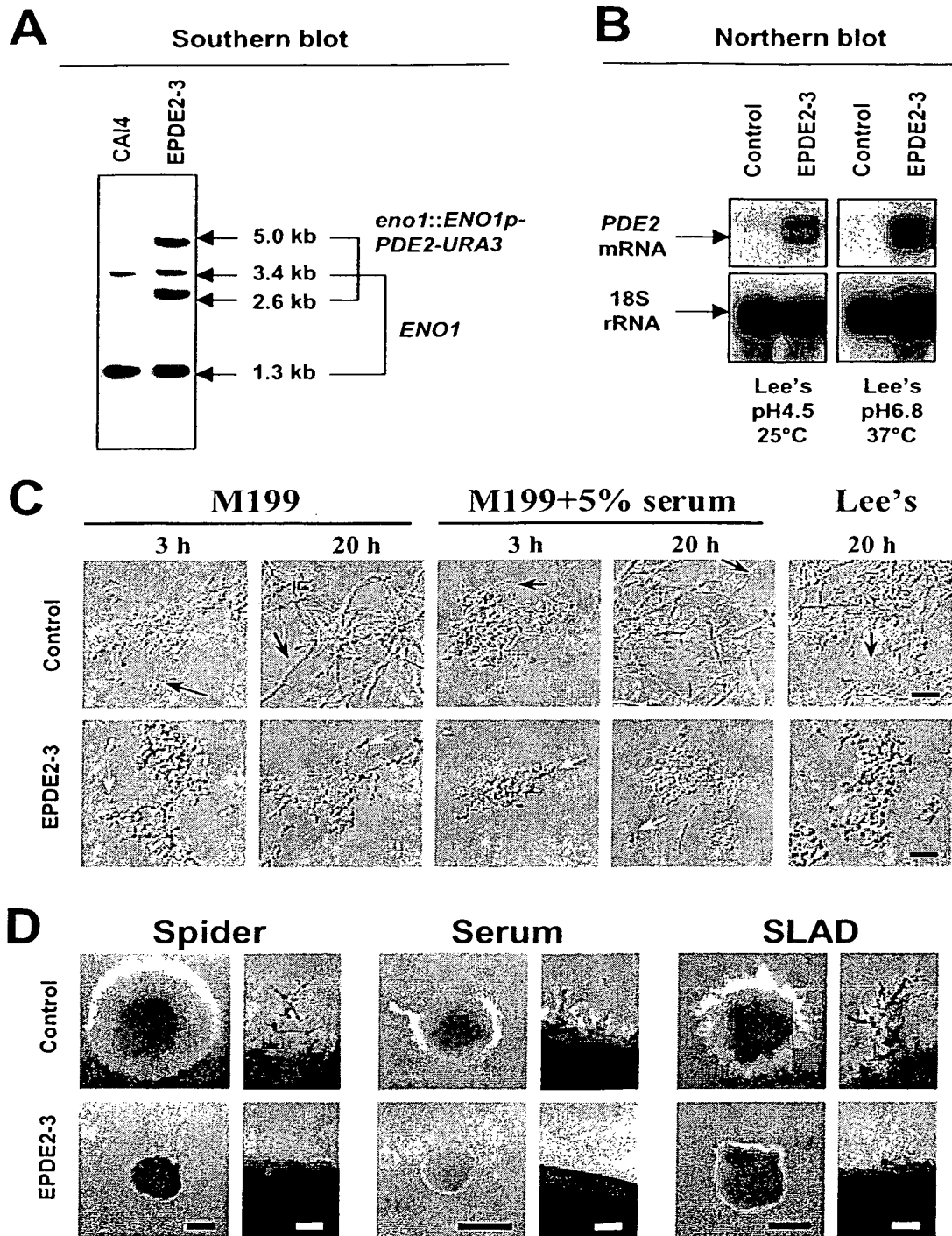


Figure 17

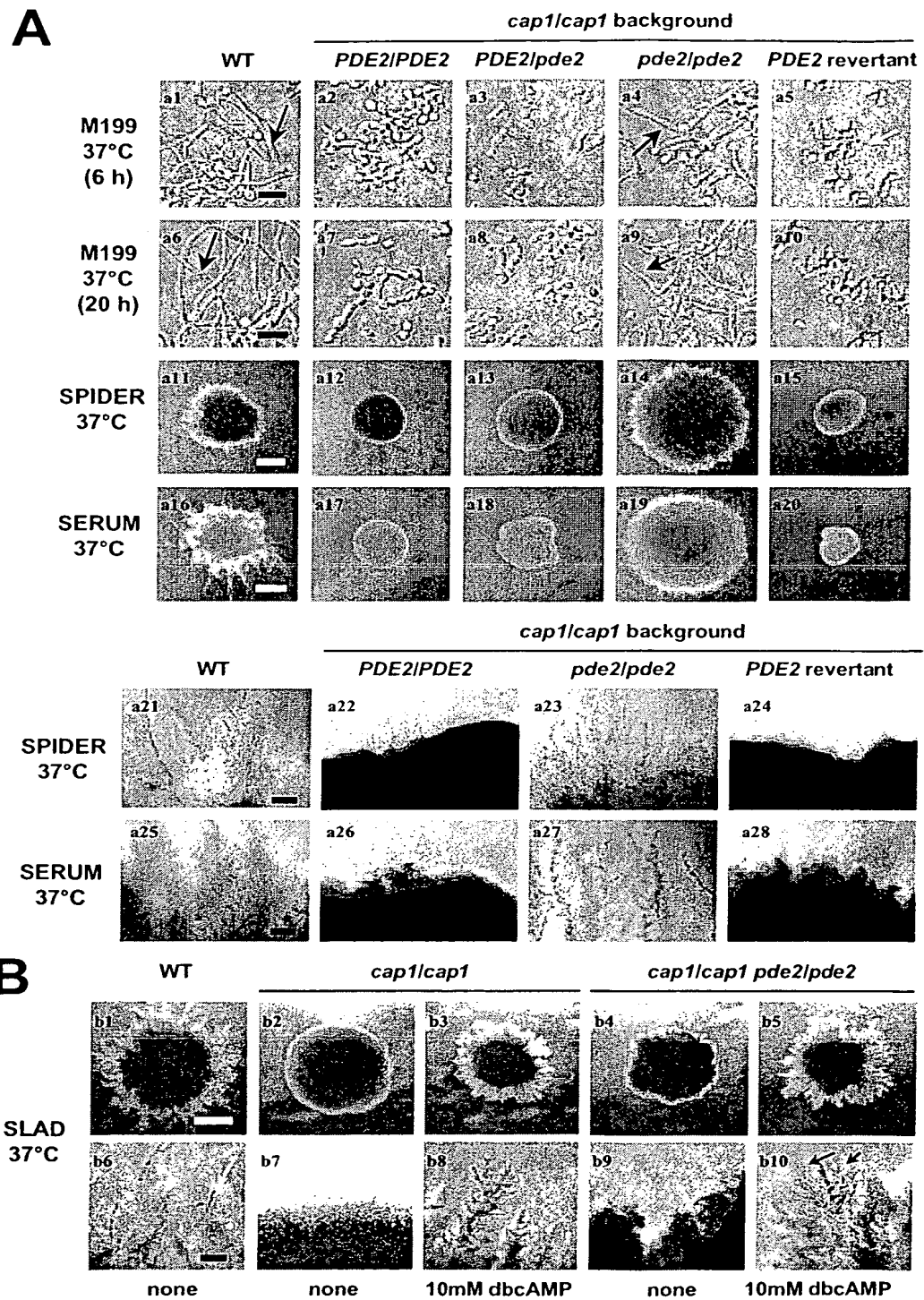
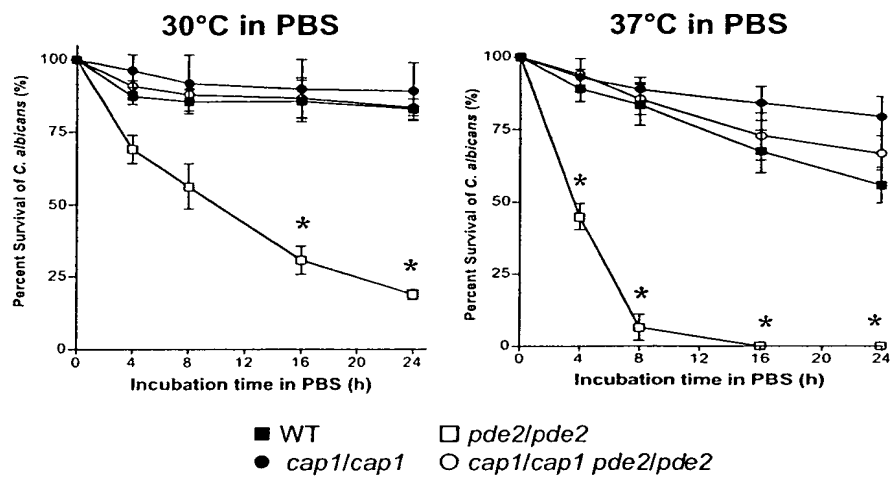


Figure 18

A



B

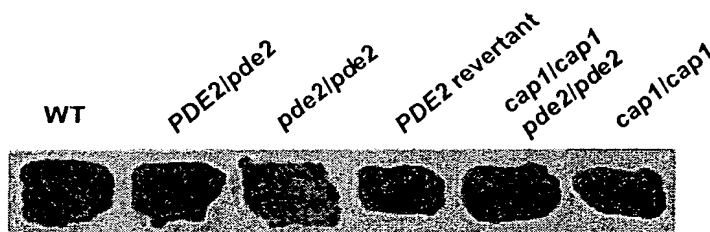


Figure 19

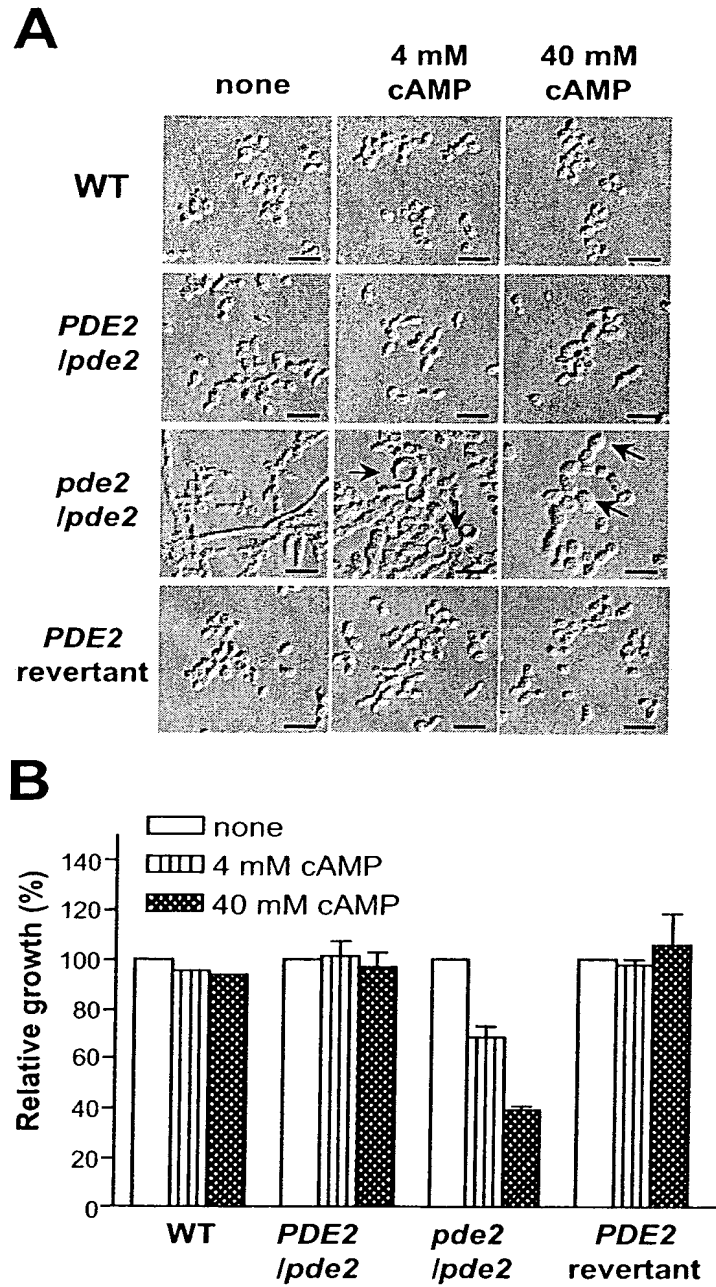
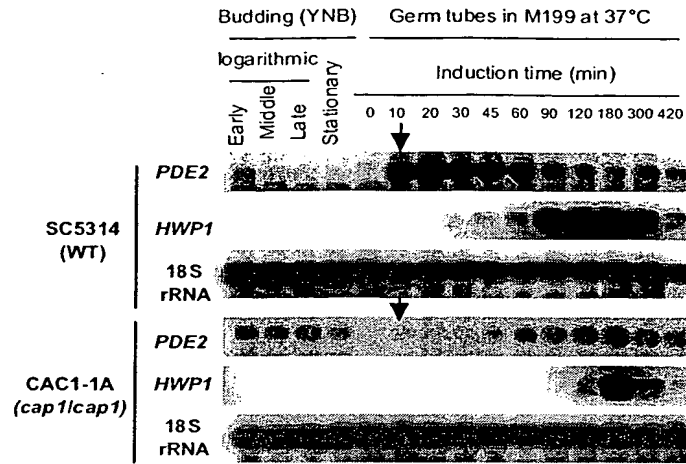


Figure 20

A



B

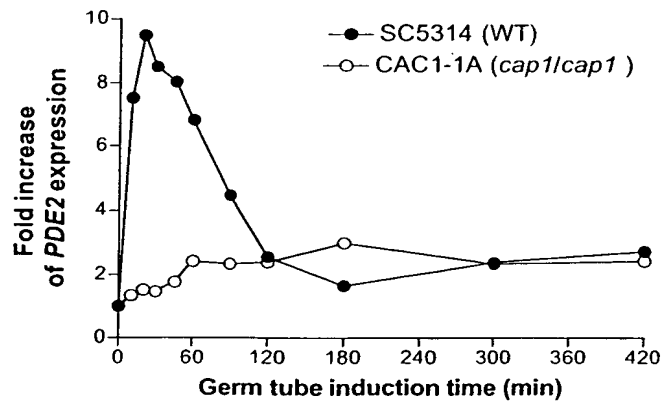


Figure 21

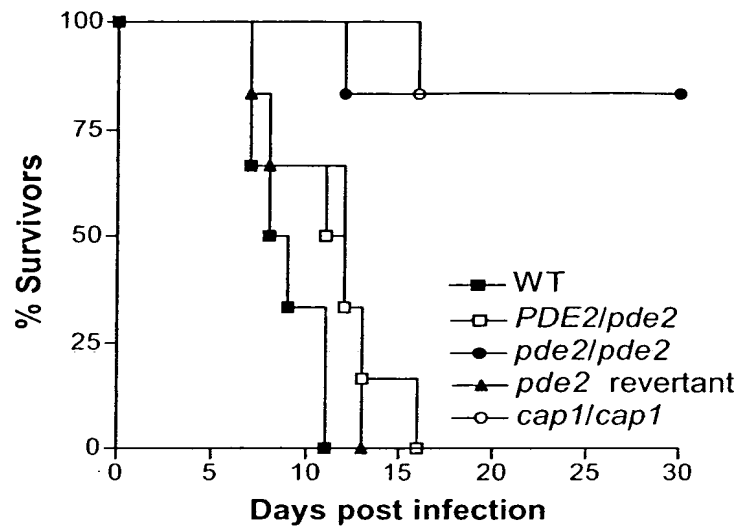


Figure 22

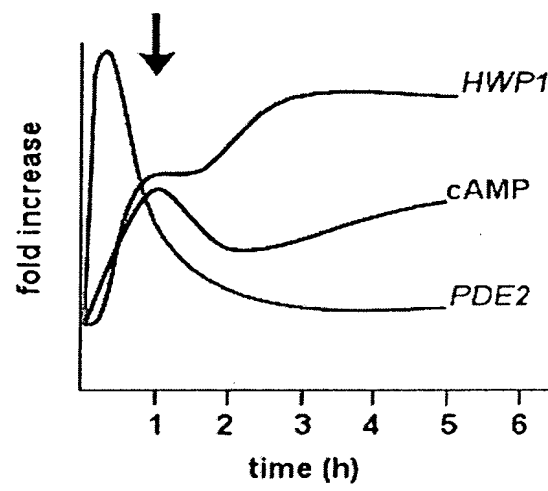


Figure 23